



Rubber Cable

H07RN-F

Flexible rubber cable, for industrial use.

EN 50525-2-21 / IEC 60245-4

DESIGN

Conductor

Electrolytic copper, class 5 (flexible), based on EN 60228 and IEC 60228.

Insulation

Rubber (type EPR).

The standard identification of insulated conductors is the following:

- 1 x natural
- 2 x Brown + Blue
- 3 G Brown + Blue + Green/Yellow
- 4 G Brown + Black + Grey + Green/Yellow
- 5 G Brown + Black + Grey + Blue + Green/Yellow
- 6 G or more Black numbered + Green/Yellow

Outer sheath

Flexible rubber. Black colour.

APPLICATIONS

H07RN-F rubber cables are designed to supply power to low voltage appliances including electric motors and submersible pumps in deep water installations as well as many other types of electrical equipment. Thanks to its extraordinary flexibility and mechanical strength, the H07RN-F cable is ideal for power transmission in both fixed installation or mobile service. The nominal voltage up to 1000 V thanks to the high dielectric properties of the insulation material (according to HD 516).



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CHARACTERISTICS



Electrical performance

H07RN-F: LOW VOLTAGE 450/750 V
DN-F: LOW VOLTAGE 0,6/1kV



Standard

H07RN-F: EN 50525-2-21 / IEC 60245-4
DN-F: UNE 21150



Approvals

CE	DNV
SEC	SASO
HAR	RoHS
AENOR	Safe drinking water certificate



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Thermal performance

Maximum service temperature: 90°C.
Maximum short-circuit temperature: 250°C (max. 5 s).
Minimum service temperature: -40°C (fixed and protected installations) and -35°C (mobile use).



Fire performance

Flame non-propagation based on UNE-EN 60332-1 and IEC 60332-1.

Reaction to fire CPR: Eca, according to EN 50575.



Mechanical performance

Minimum bending radius: 3 x cable Ø (up to 12 mm²).
4 x cable Ø (from 12 mm² onwards).
Impact resistance: AG2 Medium severity.



Chemical performance

Chemical & Oil resistance: Excellent.
Grease & mineral oils resistance: Excellent.



Water performance

Water resistance: AD8 Submersion.
Submersible pumps.
Deep wells.
Drinkable water.



Other

Meter by meter marking.



Installation conditions

Open Air.



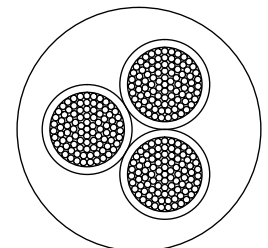
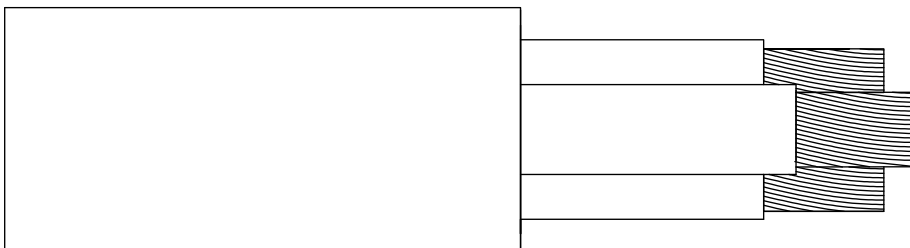
Applications

Industrial use.
Mobile use.
Robotics.
Windmills.
Temporary site installations.



Packaging

Available in coils of 100 m. and drums.



DIMENSIONS H07RN-F 450 / 750 V

Cross section (mm ²)	Diameter (mm ²)	Weight (Kg/km)	Fixed inst 30°C (A)	Mobile inst 30°C (A)	Voltage drop (V/A · km)	Cross section (mm ²)	Diameter (mm ²)	Weight (Kg/km)	Fixed inst 30°C (A)	Mobile inst 30°C (A)	Voltage drop (V/A · km)
1 x 1,5	5,9	45	21	16	26,7	3 G 95	44	3.935	352	250	0,478
1 x 2,5	6,5	60	29	20	16,6	3 G 120	47,5	4.840	410	292	0,373
1 x 4	7,4	85	40	30	9,95	3 G 150	52,8	5.985	473	335	0,299
1 x 6	8,2	110	53	38	6,63	3 G 185	57,7	7.210	542	378	0,245
1 x 10	10	170	74	53	3,84	4 G 1	9	120	17	10	39,2
1 x 16	11,2	235	101	71	2,43	4 G 1,5	10,3	160	23	16	26,7
1 x 25	13,2	350	135	94	1,57	4 G 2,5	11,9	230	32	20	16
1 x 35	14,7	465	169	117	1,11	4 G 4	13,8	320	42	30	9,95
1 x 50	17	630	207	148	0,776	4 G 6	15,6	435	54	37	6,63
1 x 70	18,9	840	268	185	0,546	4 G 10	21,4	770	75	52	3,84
1 x 95	21,4	1.100	328	222	0,414	4 G 16	24,3	1.075	100	69	2,43
1 x 120	23,3	1.370	383	260	0,323	4 G 25	29,5	1.620	127	92	1,57
1 x 150	25,8	1.685	444	300	0,259	4 G 35	32,5	2.105	158	114	1,11
1 x 185	28,1	2.040	510	341	0,213	4 G 50	37,4	2.875	192	143	0,776
1 x 240	31,3	2.615	607	407	0,161	4 G 70	41,8	3.825	246	178	0,546
1 x 300	34,5	3.275	703	468	0,129	4 G 95	47,4	4.980	298	210	0,414
1 x 400	39,3	4.275	823	553	0,0976	4 G 120	52,3	6.165	346	246	0,323
1 x 500	43,2	5.410	946	634	0,0772	4 G 150	57,5	7.605	399	282	0,259
2 x 1	7,5	80	21	10	45,2	4 G 185	63,1	9.205	456	319	0,213
2 x 1,5	8,3	100	26	16	30,9	4 G 240	72,1	12.030	538	377	0,161
2 x 2,5	9,8	145	36	25	18,5	5 G 1	9,8	145	17	10	39,2
2 x 4	10,9	195	49	34	11,5	5 G 1,5	11,1	190	23	16	26,7
2 x 6	12,4	265	63	43	7,66	5 G 2,5	13,2	280	32	20	16
2 x 10	17,5	485	86	60	4,43	5 G 4	15,3	400	42	30	9,95
2 x 16	19,5	650	115	79	2,81	5 G 6	17,7	545	54	38	6,63
2 x 25	24,8	1.010	149	105	1,81	5 G 10	23,7	945	75	54	3,84
2 x 35	27,4	1.295	185	130	1,29	5 G 16	26,9	1.320	100	71	2,43
2 x 50	32	1.780	225	165	0,896	5 G 25	32,9	1.995	127	94	1,57
2 x 70	35,8	2.335	289	205	0,631	5 G 35	35,8	2.560	158	114	1,11
3 G 1	8,2	95	21	10	45,2	5 G 50	42,2	3.575	192	143	0,776
3 G 1,5	9,2	125	26	16	30,9	5 G 70	46,7	4.715	246	178	0,546
3 G 2,5	10,9	185	36	25	18,5	5 G 95	52,5	6.105	298	210	0,414
3 G 4	12,4	260	49	35	11,5	5 G 120	57,2	7.500	346	246	0,323
3 G 6	14,4	350	63	44	7,66	7 G 1,5	14,5	305	26	16	30,9
3 G 10	19,4	625	86	62	4,43	7 G 2,5	16,6	425	36	25	18,5
3 G 16	21,8	855	115	82	2,81	7 G 4	20,2	635	49	34	11,5
3 G 25	26	1.255	149	109	1,81	8 G 1,5	15,5	350	26	16	30,9
3 G 35	29,2	1.655	185	135	1,29	8 G 2,5	18,4	505	36	25	18,5
3 G 50	33,5	2.235	225	169	0,896	8 G 4	21,8	735	49	34	11,5
3 G 70	37,3	2.970	289	211	0,631	10 G 2,5	19,2	560	36	25	18,5

Maximum current capacity according to IEC 60364-5-52.

For other installation conditions, please refer to correction factors in the appendix to this catalogue.

See more technical data on the particular cable specification and on its Declaration of Performance (DoP)

Top Cable reserves the right to carry out any modification to the data sheets whatsoever without giving previous notice.

Cross section (mm ²)	Diameter (mm ²)	Weight (Kg/km)	Fixed inst	Mobile inst	Voltage drop (V/A · km)
			30°C (A)	30°C (A)	
10 G 4	22,8	830	49	34	11,5
12 G 1,5	17,1	445	26	16	30,9
12 G 2,5	19,6	635	36	25	18,5
12 G 4	24,3	945	49	34	11,5
16 G 1,5	19,6	580	26	16	30,9
16 G 2,5	22,5	840	36	25	18,5
18 G 1,5	20,2	635	26	16	30,9
18 G 2,5	23,3	910	36	25	18,5
19 G 1,5	21,1	670	26	16	30,9
19 G 2,5	25,1	995	36	25	18,5
24 G 1,5	23,1	810	26	16	30,9
24 G 2,5	27	1.180	36	25	18,5



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